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**OFFICE OF EPIDEMIOLOGY AND STATISTICS
BUREAU OF PUBLIC HEALTH STATISTICS
ARIZONA DEPARTMENT OF HEALTH SERVICES**
2700 North 3rd Street, Room 4075
Phoenix, Arizona 85004
Phone: 602/542-1216; FAX: 602/542-2940
<http://www.hs.state.az.us/plan/index.htm>

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DRUG-RELATED MORTALITY, ARIZONA, 1989-1999

by

Christopher K. Mrela, Ph.D., *Assistant Registrar of Vital Statistics*
Trentham Coe, *Senior Research Data Analyst*

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TABLE OF CONTENTS

PURPOSE	1
METHODS AND SOURCES.....	1
CLASSIFICATION OF ICD-9 CODES.....	2
DATA ORGANIZATION	3
KEY FINDINGS	3

LIST OF FIGURES

FIGURES	7
1. DRUG-RELATED DEATH RATES BY MORTALITY CATEGORY AND YEAR, ARIZONA, 1989-1999	9
2. CHANGES IN THE NUMBER OF FATAL UNINTENTIONAL POISONINGS FOR SELECTED TYPES OF DRUGS, ARIZONA, 1989-1999.....	9
3. DRUG-RELATED DEATH RATES BY ETHNIC GROUP, ARIZONA, 1999	10
4. MORTALITY RATES FOR DRUG DEPENDENCE, ABUSE AND MISUSE BY ETHNIC GROUP, ARIZONA, 1999	10
5. MORTALITY RATES FOR ACCIDENTAL DRUG MISUSE BY YEAR AMONG YOUNG ADULTS 20-44 YEARS OLD, ARIZONA, 1989-1999	11
6. MORTALITY RATES FOR ACCIDENTAL DRUG MISUSE BY YEAR AMONG MIDDLE-AGED ADULTS 45-64 YEARS OLD, ARIZONA, 1989-1999.....	11
7. SHARE OF DRUG-RELATED DEATHS BY TYPE OF DRUG AND ETHNIC GROUP, ARIZONA, 1999	12
8. DRUG-RELATED DEATH RATES BY AGE GROUP AND ETHNICITY, ARIZONA, 1999	12
9. DRUG-RELATED DEATH RATES BY MORTALITY CATEGORY AND GENDER, ARIZONA, 1999	13
10. DRUG-RELATED DEATH RATES BY TYPE OF DRUG AND GENDER, ARIZONA, 1999	13
11. DRUG-RELATED DEATHS BY COUNTY OF RESIDENCE, ARIZONA, 1999	14

LIST OF TABLES

TABLES.....	15
1. NUMBER OF DRUG-RELATED DEATHS BY CIRCUMSTANCES AND CONDITIONS RESULTING IN DEATH BY YEAR, ARIZONA, 1989-1999	17
2. MORTALITY RATES AND PERCENT DISTRIBUTION OF DRUG-RELATED MORTALITY BY CIRCUMSTANCES AND CONDITIONS RESULTING IN DEATH, ARIZONA, 1989-1999	18
3. NUMBER OF DRUG-RELATED DEATHS BY TYPE OF DRUG AND YEAR, ARIZONA, 1989-1999	19
4. MORTALITY RATES AND PERCENT DISTRIBUTION OF DRUG-RELATED DEATHS BY TYPE OF DRUG AND YEAR, ARIZONA, 1989-1999	20
5. DRUG-RELATED MORTALITY BY CIRCUMSTANCES AND CONDITIONS RESULTING IN DEATH, TYPE OF DRUG AND YEAR, ARIZONA, 1989-1999	21
6. DRUG-RELATED MORTALITY BY CIRCUMSTANCES AND CONDITIONS RESULTING IN DEATH, ETHNIC GROUP AND YEAR, ARIZONA, 1989-1999	22
7. DRUG-RELATED MORTALITY BY TYPE OF DRUG AND YEAR FOR EACH ETHNIC GROUP, ARIZONA, 1989-1999	23
8. DRUG-RELATED DEATH RATES BY MORTALITY CATEGORY AND ETHNIC GROUP, ARIZONA, 1999	24
9. DRUG-RELATED MORTALITY BY ETHNIC GROUP AND YEAR FOR EACH AGE GROUP, ARIZONA, 1989-1999	25
10. DRUG-RELATED MORTALITY BY CIRCUMSTANCES AND CONDITIONS RESULTING IN DEATH, AGE GROUP AND YEAR, ARIZONA, 1989-1999	26
11. DRUG-RELATED MORTALITY BY TYPE OF DRUG AND AGE GROUP BY YEAR, ARIZONA, 1989-1999	27
12. DRUG-RELATED MORTALITY IN URBAN AND RURAL AREAS BY CIRCUMSTANCES AND CONDITIONS RESULTING IN DEATH BY YEAR, ARIZONA, 1989-1999.....	28
13. DRUG-RELATED MORTALITY IN URBAN AND RURAL AREAS BY TYPE OF DRUG AND YEAR, ARIZONA, 1989-1999	29
14. DRUG-RELATED MORTALITY BY CIRCUMSTANCES AND CONDITIONS RESULTING IN DEATH, GENDER AND YEAR, ARIZONA, 1989-1999.....	30
15. DRUG-RELATED MORTALITY BY TYPE OF DRUG, GENDER AND YEAR, ARIZONA, 1989-1999	31
16. DRUG-RELATED MORTALITY BY CIRCUMSTANCES AND CONDITIONS RESULTING IN DEATH, MARITAL STATUS AND YEAR, ARIZONA, 1989-1999.....	32
17. DRUG-RELATED MORTALITY BY TYPE OF DRUG, MARITAL STATUS AND YEAR, ARIZONA, 1989-1999	33
18. DRUG-RELATED MORTALITY BY COUNTY OF RESIDENCE AND YEAR, ARIZONA, 1989-1999	34
19. CHANGES IN THE NUMBER OF DEATHS FROM UNINTENTIONAL POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICALS, ARIZONA, 1989-1999	35

Purpose

This report is to provide information on drug-related mortality among Arizona residents. The data for 1999 are placed in a temporal context by comparison with the data for the preceding ten years.

Methods and Sources

Data on the number and characteristics of drug-related deaths among Arizona residents were obtained from the death certificates filed with the Arizona Department of Health Services.

Population denominators for Arizona residents, used to calculate rates, are projections from the Population Statistics Unit in the Arizona Department of Economic Security (DES) (data for 1989 and 1993-1999) and the U.S. Census Bureau (data for 1990 and ethnic group data for 1999). Detailed population data by gender, age and county were unavailable for 1991-1992. In order to obtain the population denominators for these two years, the 1990 percentages of population breakdowns (or census shares) were applied to

1991 and 1992 total state or county population estimates published by the DES.

In this report, drug-related fatalities are classified in terms of circumstances and conditions resulting in death such as:*

- **Drug dependence and drug abuse**
- **suicide** by drugs
- **homicide** by drugs
- **accidents in the use of drugs** (such as accidental overdose or wrong substance given or taken in error)
- **adverse effects of drugs** in therapeutic or prophylactic dosage
- **poisoning by drugs, where it was undetermined** whether it was unintentionally or purposely inflicted.

Whenever possible, drug-related deaths are classified also in terms of type of drug causing fatal poisoning, such as cocaine, morphine, barbiturates, non-barbiturate sedatives and tranquilizers, antidepressants, hallucinogens, and psycho-stimulants, as well as other, mixed and unspecified drugs. A detailed cross-classification by these two dimensions of the ICD-9 codes relevant to drug-related mortality is given on the following page.

* **International Statistical Classification of Diseases, Injuries and Causes of Death.** Geneva: World Health Organization, 1977.

**CLASSIFICATION OF ICD-9 CODES FOR UNDERLYING CAUSE OF
DRUG-RELATED MORTALITY BY TYPE OF DRUG, CIRCUMSTANCES
AND CONDITIONS RESULTING IN DEATH**

	TYPE OF DRUG			
Circumstances and Conditions Resulting in Death	Cocaine Type^a	Morphine Type^b	Barbiturates, Tranquilizers and Other Psychotropic Agents^c	Other, Mixed and Unspecified
Drug Dependence and Drug Abuse^d	304.2, 305.6	304.0, 304.7, 305.5	292.1, 304.1, 304.3-304.5, 304.8, 305.2-305.4, 305.7-305.8	292.0, 292.2, 292.8-292.9, 304.6, 304.9, 305.9
Accidental Drug Misuse/Unintentional Poisoning by Drugs^e	855.2, 938.5	850.0, 935.0	851-855.1, 855.3-855.9, 937.0-938.4, 938.6-941.9	850.01-850.9, 856-858, 930-934, 935.1-396.4, 942-949
Suicidal Poisoning	NO ICD-9 CODES	NO ICD-9 CODES	950.1-950.3	950.0, 950.4-950.5
Homicidal Poisoning	NO ICD-9 CODES	NO ICD-9 CODES	NO ICD-9 CODES	962.0
Poisoning Undetermined Whether Accidentally or Purposely Inflicted	NO ICD-9 CODES	NO ICD-9 CODES	980.1-980.3	980.0, 980.4-980.5

^a Cocaine leaves and derivatives

^b Heroin, methadone, opium and combinations of morphine type with any other drug.

^c Barbiturates, non-barbiturate sedatives and tranquilizers, antidepressants, hallucinogens and psychostimulants.

^d Organic psychotic conditions and non-psychotic mental disorders associated with intake of drugs. Includes:

drug psychoses (292.0-292.9)

drug dependence (304.0-304.9)

non-dependent abuse of drugs (305.2-305.9)

Excludes: alcoholic psychoses, alcohol abuse, tobacco abuse.

^e Includes drugs and medicaments causing adverse effects in therapeutic use (ICD-9 E930-E949)

Data Organization

Tables 1, 2, 5, 6, 10, 12, 14 and 16 describe drug-related mortality in the 1989-1999 period in terms of circumstances and conditions resulting in death. Tables 3, 4, 7, 11, 13, 15, 17 and 19 describe drug-related mortality in terms of type of drug causing fatal poisoning. The differences in drug-related mortality are shown by such factors as ethnicity, gender, marital status, urban/rural region of residence, type of drug and age group.

Key Findings

This section presents some illustrative findings contained in the figures and tables of the report. It is not intended to be an exhaustive analysis of the tabulated data.

It is impossible to determine how accurately the reported number of drug-related deaths reflects the true incidence of mortality from drug abuse/dependence.

Some reasons for underreporting are: 1) social and family pressures to avoid stigmatization and 2) incomplete information at the time of death about the decedent's history of drug use. For these reasons drug dependence and drug abuse may not be given as the cause of death; instead another, less accurate category of underlying cause (e.g., unintentional drug misuse) is used.

□ During 1999, a total of 541 Arizona residents died from poisoning by drugs. Accidental overdoses accounted for 384 or 71 percent of total drug-related deaths (**Table 1**). Drugs or medications were used in 101 completed suicides and in one homicide. In addition, in 37 fatalities an investigation by medical or legal authority has not determined whether poisoning by drugs was accidental, suicidal or homicidal.

□ The age-adjusted rate of deaths from drug-poisoning due to all reported circumstances doubled in Arizona from 5.4 deaths per 100,000 persons in 1989 to 10.7/100,000 in 1999.

□ The number of deaths due to accidental overdose or misuse of drugs increased 3.9 times from 99 in 1989 to 384 in 1999 (**Table 1**). In contrast, the number of

deaths due to drug dependence/abuse declined from its recent peak of 49 fatalities in 1996 to 14 in 1999 (**Figure 1, Table 1**).

□ In 1999, 96 deaths had a morphine-type drug reported as the agent compared to 75 deaths in 1998 and 50 deaths in 1997 (**Table 3**).

□ The number of deaths due to accidental overdose of amphetamines increased from 7 deaths in 1998 to 16 deaths in 1999 (**Figure 2, Table 19**).

□ The number of deaths attributed to cocaine-type drugs increased from 23 in 1997 to 40 in 1998 and 62 in 1999 (**Table 3**).

□ Since 1989, annual mortality rates for cocaine and morphine type drugs combined have consistently exceeded the rates of death due to poisoning by barbiturates, tranquilizers and other psychotropic agents (**Table 4**). The 1999 rate of deaths from morphine type drugs (2.0/100,000) was 2.2 times greater than the 1989 rate (**Table 4**).

□ Black residents of Arizona had in 1999 the highest rate of drug-related death (16.5/100,000), exceeding the corresponding rates for White non-Hispanics,

Hispanics and American Indians by at least 42 percent (**Figure 3, Table 8**).

□ Both young (20-44 years) and middle-aged adults (45-64 years) experienced substantial increases in their mortality from accidental drug overdoses. The 1999 death rate for accidental overdoses among young adults in the State was 2.5 times greater than the rate reported for 1989 (14.9/100,000 vs. 5.9/100,000, **Figure 5**). Since 1997, more young adults died from overdoses of drugs than from HIV infection.*

□ The death rate for accidental overdoses among middle-aged adults increased 7.8 times from 1.3/100,000 in 1989 to 10.2/100,000 in 1999 (**Figure 6, Table 10**). In 1999, 101 deaths of Arizona's middle-aged adults were attributed to accidental drug overdose, compared to only 8 deaths in 1989.

□ The 1999 rate of deaths from drug dependence and abuse among Hispanics (0.6/100,000) was 3 times greater than that of White non-Hispanics (0.2/100,000). In contrast, White non-Hispanics had the highest rate of death for suicidal poisoning by drugs (2.4/100,000) (**Table 8**).

* See p. 150 in **Arizona Health Status and Vital Statistics 1999**. Phoenix: Arizona Department of Health Services. November 1999.

- ❑ Morphine type drugs (heroin, methadone, opium and combination of morphine with any other drug) were responsible for more deaths than cocaine-type drugs among White non-Hispanics (**Figure 7, Table 8**).
- ❑ Cocaine-type drugs were responsible for 38 percent of drug-related deaths among Blacks, compared to 21 percent among Hispanics and 17 percent among American Indians (**Figure 5**). The 1999 rate of cocaine-related deaths among Blacks (6.2/100,000) was 7.8 times greater than that of White non-Hispanics (0.8/100,000)(**Table 8**).
- ❑ Among persons aged 45-64 years American Indian residents of Arizona in 1999 were 28.6 percent more likely to have been victims of fatal drug poisoning (20.7/100,000) compared with the overall risk of 16.1/100,000 for all ethnic groups (**Figure 8, Table 8**).
- ❑ The 1999 rate of drug-related deaths among males (16.0/100,000) was 2.7 times greater than the rate of 6.0/100,000 for females (**Figure 9, Table 14**). The male mortality rate from cocaine and morphine combined was 4.1 times higher than respective female rate (**Figure 10, Table 15**).
- ❑ Males, who accounted for 72.8 percent of all drug-related deaths in 1999, had an even greater proportional representation among reported deaths from accidental drug misuse (92.8 percent). Their share of cocaine/morphine-related deaths was 81 percent.
- ❑ Seventy out of every 100 drug-related deaths in 1999 were to unmarried Arizona residents (**Table 16, Table 17**).
- ❑ The age-adjusted drug-related mortality rates varied in Arizona in 1999 from 5.0/100,000 in Mohave County to 20.6/100,000 in Graham County. No drug-related deaths were reported in 1999 in Apache and Greenlee counties (**Figure 11, Table 18**).
- ❑ One of the objectives set by the U.S. Public Health Service for the year 2000 is that the rate of drug-related deaths should be reduced to 3.3/100,000. Arizona residents were much closer to this proposed objective in 1990 than they were in 1998 or 1999 (**Table 2**). In 1990, the age-adjusted drug-related mortality rate (4.6/100,000) for Arizonans exceeded the year 2000 national objective by 40 percent. In 1999, the Arizona rate of drug-related deaths was 2.3 times greater than the year 2000 target rate.

FIGURES

Figure 1
Drug-Related Death Rates by Mortality Category and Year, Arizona, 1989-1999

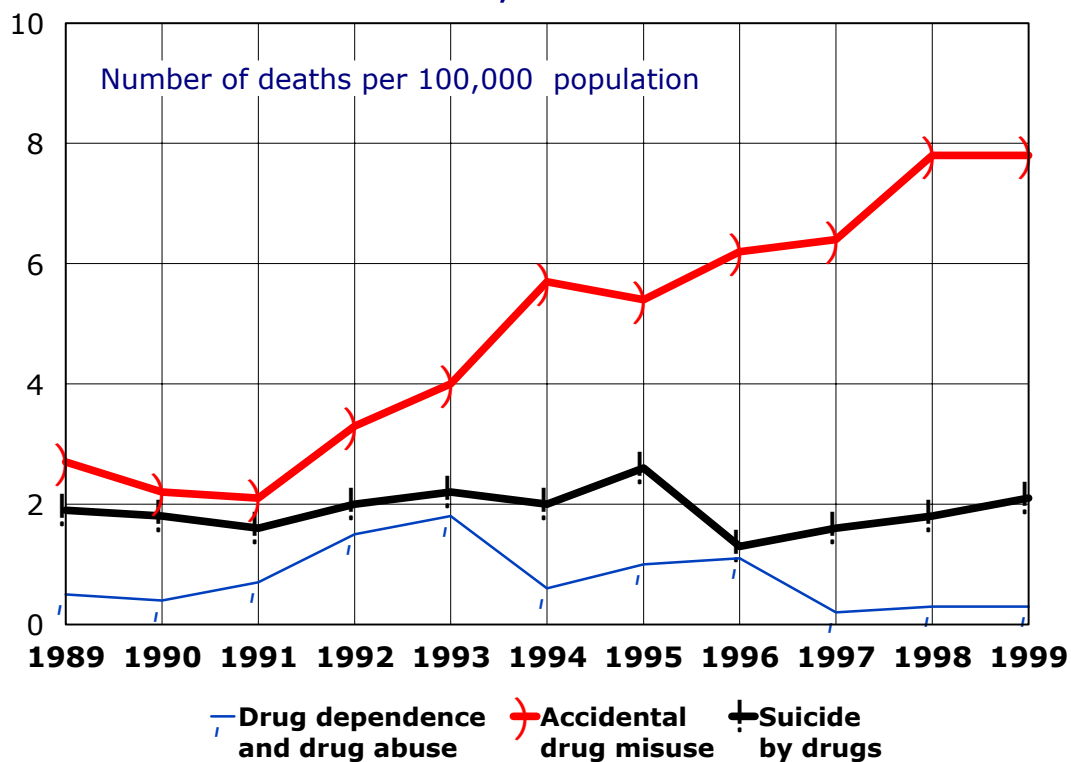
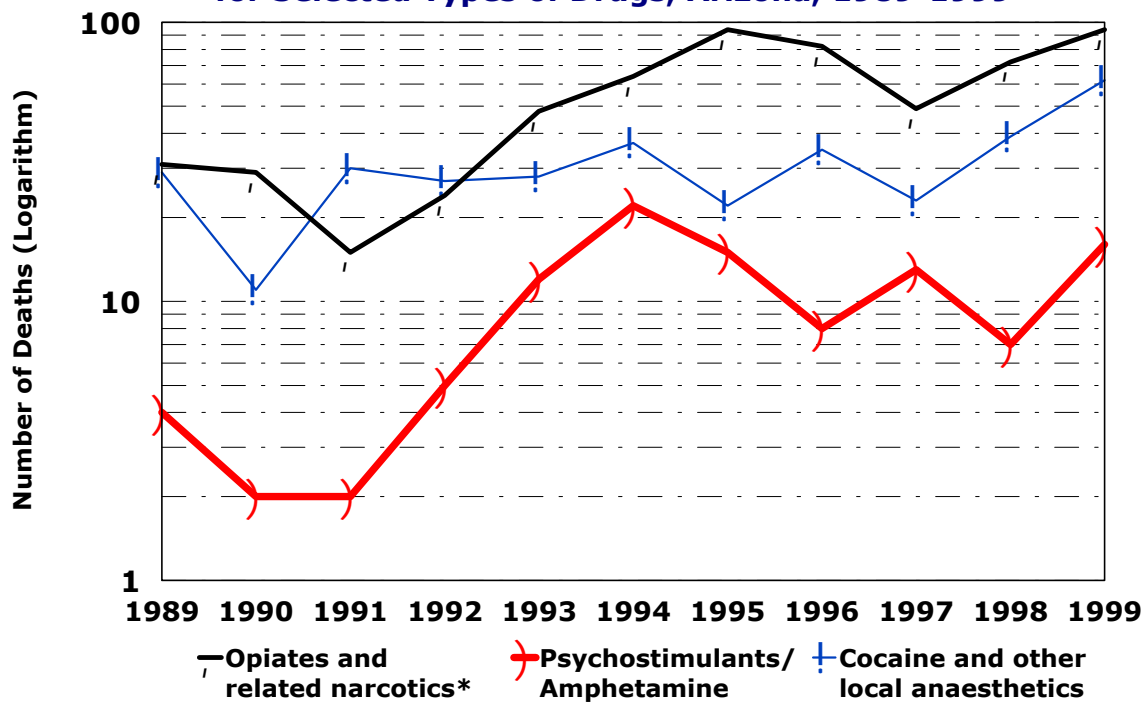


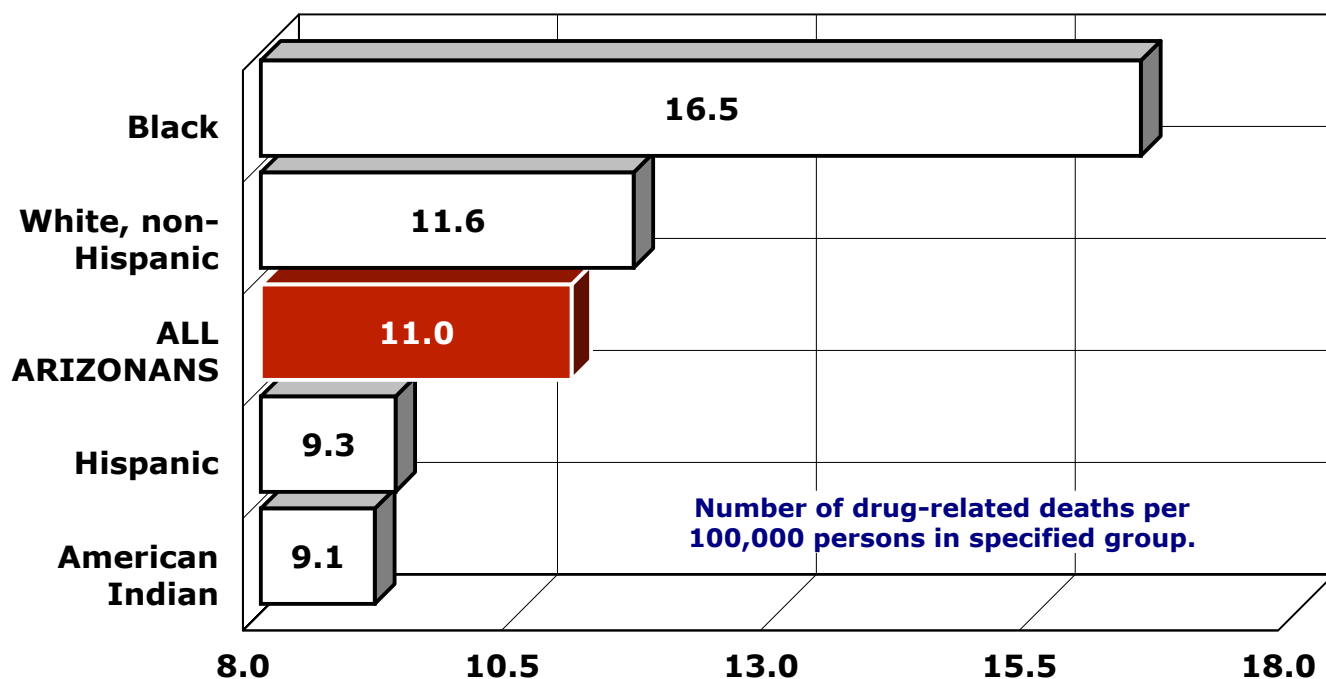
Figure 2
Changes in the Number of Fatal Unintentional Poisonings for Selected Types of Drugs, Arizona, 1989-1999



* Heroin, methadone, codeine, morphine, opium.

Note: logarithmic scale.

Figure 3
Drug-Related Death Rates by Ethnic Group,
Arizona, 1999



Note: mortality rates for Asians (Asian & Pacific Islanders) do not meet standards of reliability and precision. Asians accounted for about one drug-related death per year in the period 1989-1999.

Figure 4
Mortality Rates for Drug Dependence, Abuse and Misuse
by Ethnic Group, Arizona, 1999

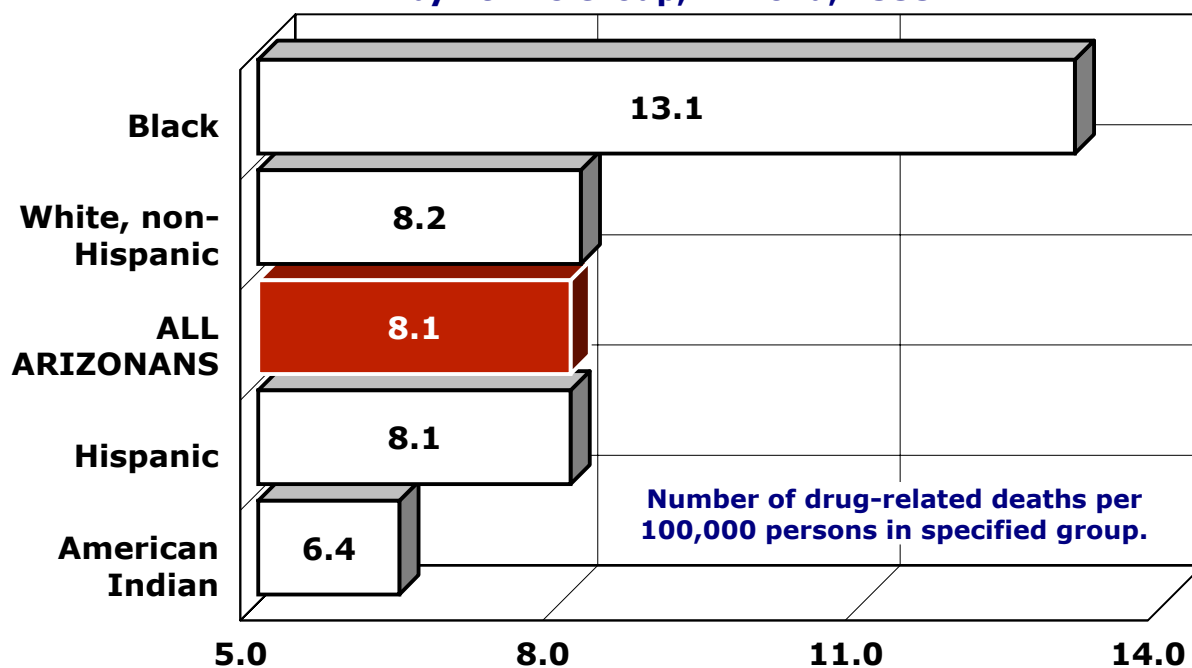


Figure 5
Mortality Rates for Accidental Drug Misuse*
by Year Among Young Adults 20-44 Years Old,
Arizona, 1989-1999

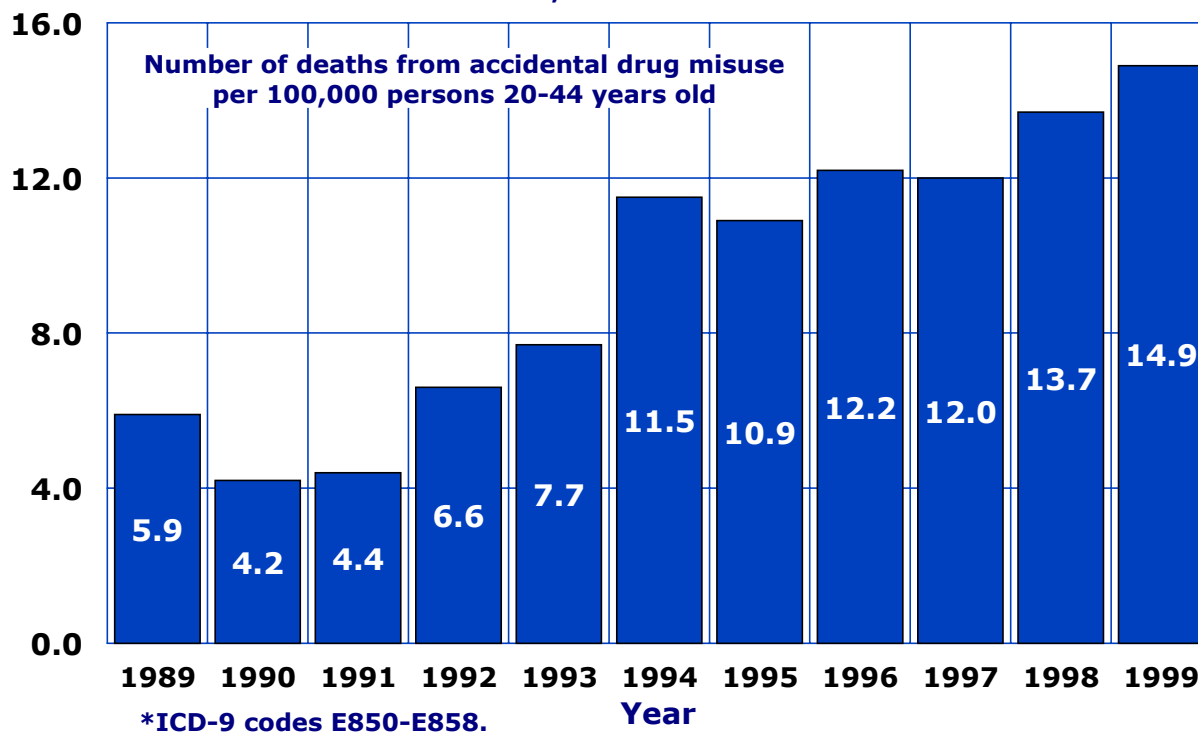


Figure 6
Mortality Rates for Accidental Drug Misuse* Among
Middle-Aged Adults 45-64 Years Old, Arizona, 1989-1999

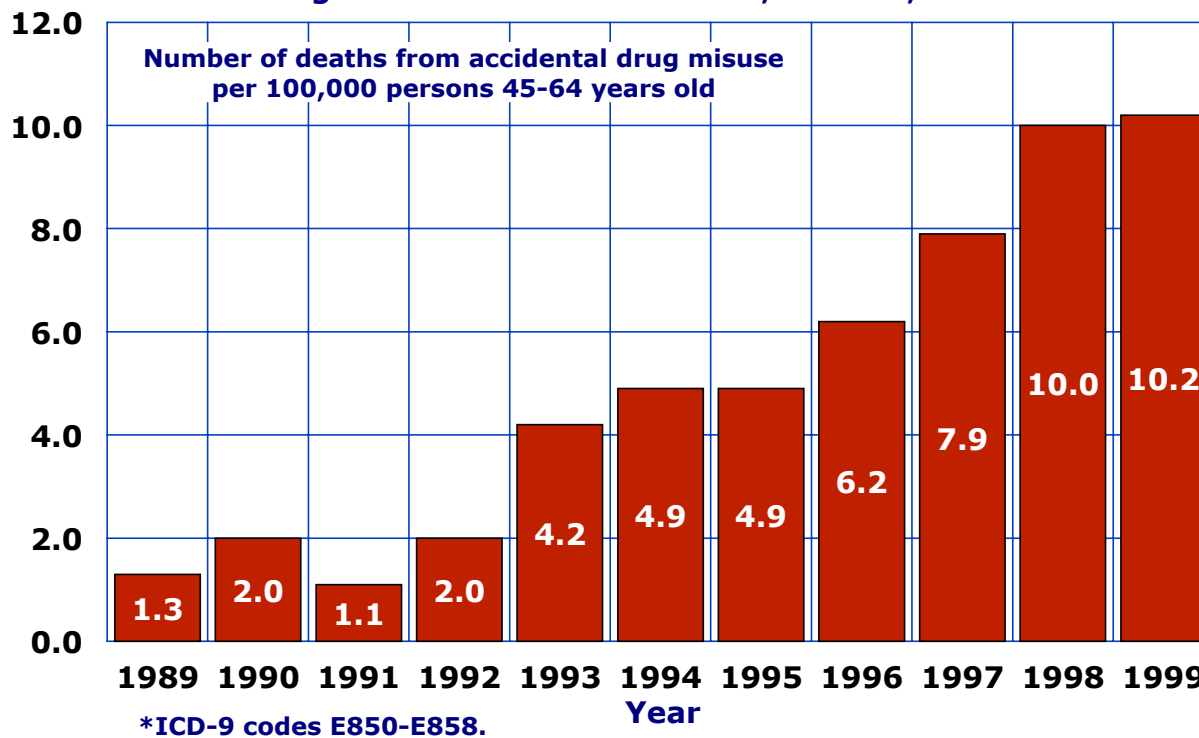


Figure 7
Share of Drug-Related Deaths by Type of Drug and Ethnic Group, Arizona, 1999

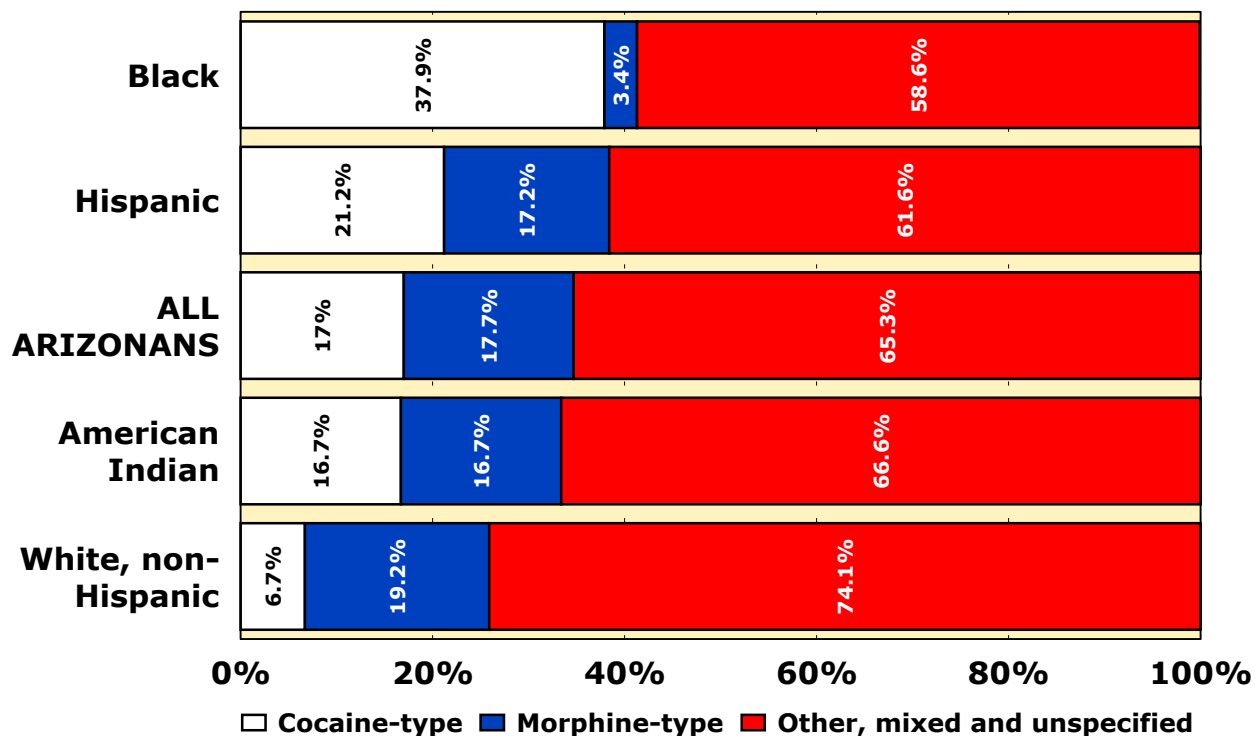


Figure 8
Drug-Related Death Rates by Age Group and Ethnicity, Arizona, 1999

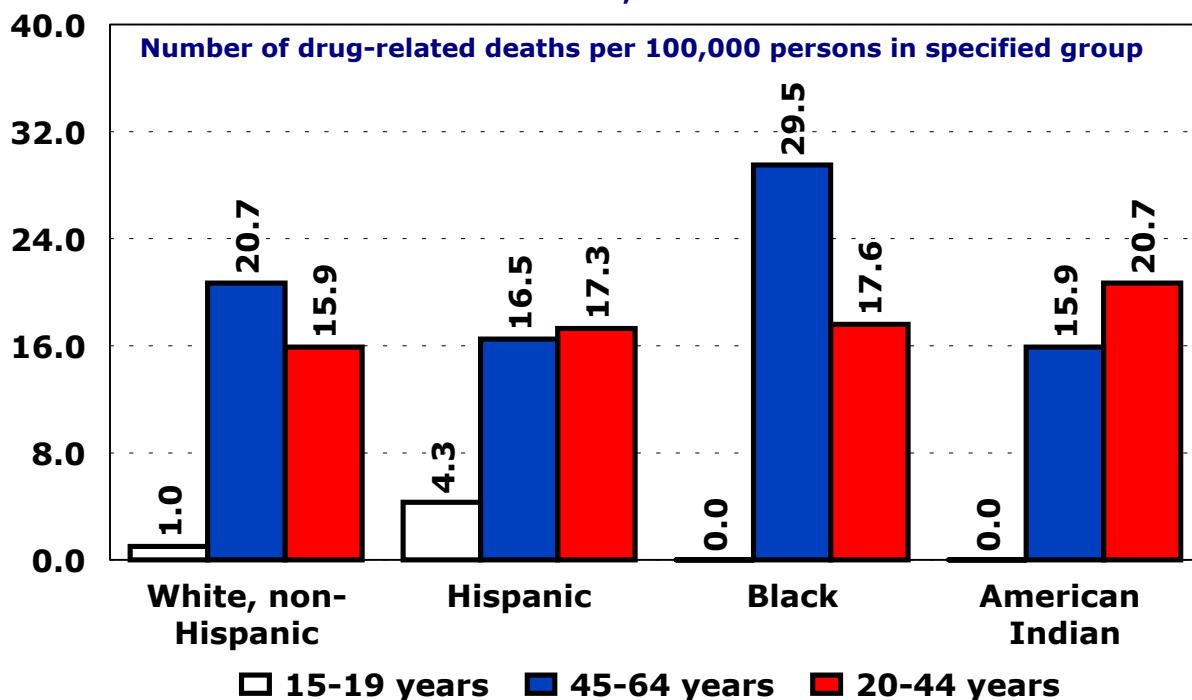


Figure 9
Drug-Related Death Rates by Mortality Category and Gender,
Arizona, 1999

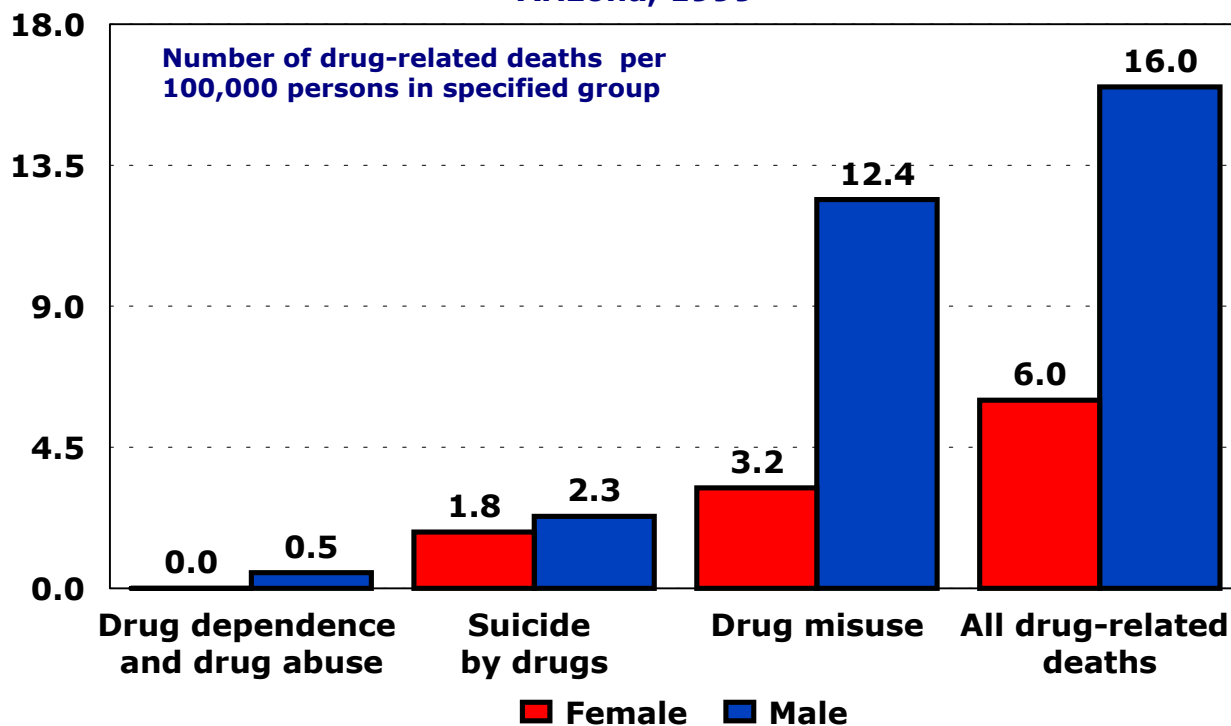


Figure 10
Drug-Related Death Rates by Type of Drug and Gender,
Arizona, 1999

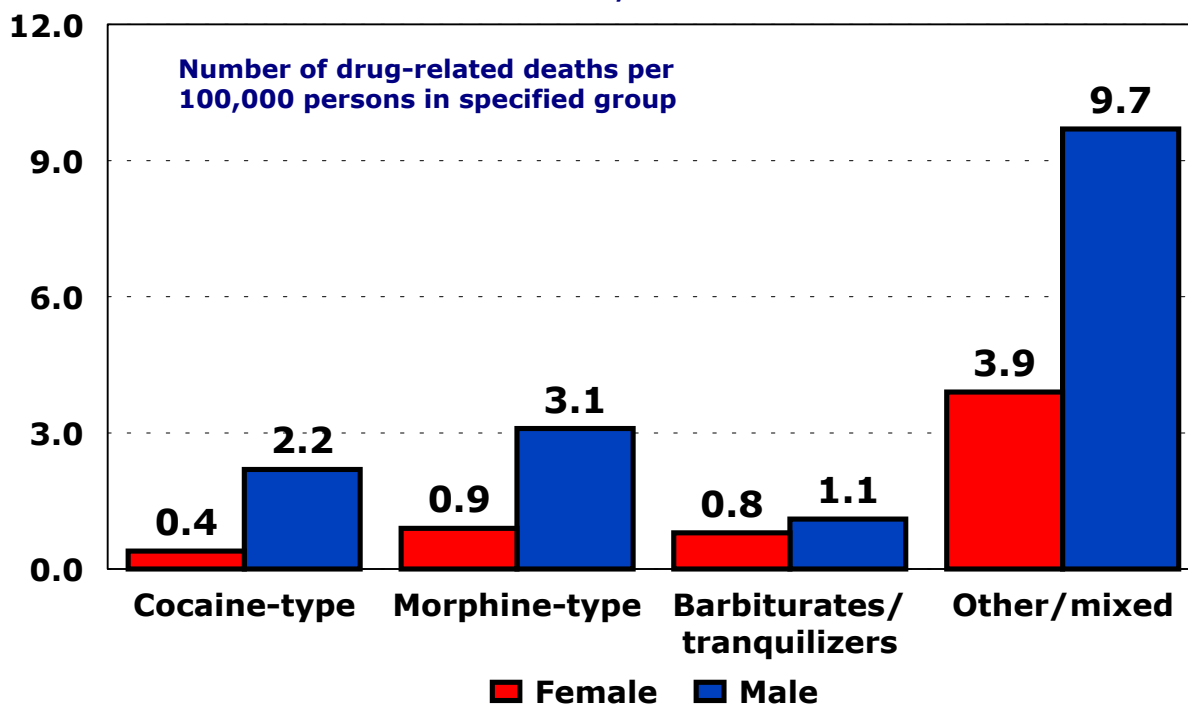
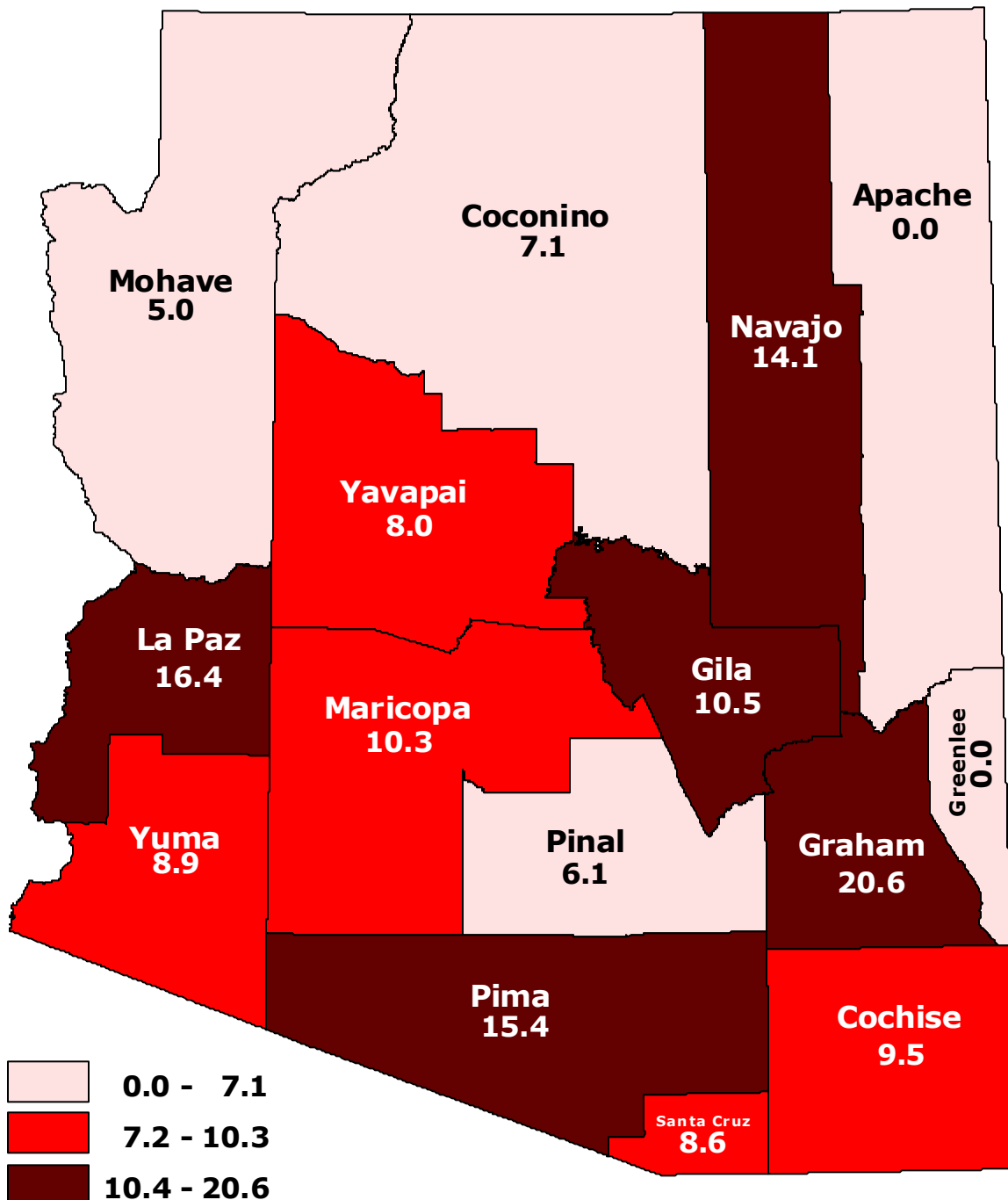


Figure 11
Drug-Related Deaths
by County of Residence, Arizona, 1999



NUMBER OF DEATHS PER 100,000 POPULATION (age-adjusted)

ARIZONA RATE = 10.7

ARIZONA 2000 OBJECTIVE = 3.0

DATA TABLES

TABLE 1
NUMBER OF DRUG-RELATED DEATHS BY CIRCUMSTANCES AND CONDITIONS RESULTING IN DEATH BY YEAR,
ARIZONA, 1989-1999

Circumstances and conditions resulting in death	Comments*	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Drug dependence and drug abuse, total^a	Organic psychotic conditions and non-psychotic mental disorders associated with intake of drugs	20	16	25	57	42	25	42	49	10	16	14
--Drug psychoses	Syndromes due to consumption of drugs	0	0	0	0	0	0	0	0	0	0	0
--Drug dependence	A compulsion to take a drug on a continuous or periodic basis	17	15	25	53	36	22	41	46	9	12	12
--Non-dependent abuse of drugs	Maladaptive effect of a drug on which person is not dependent	3	1	0	4	6	3	1	3	1	4	2
Accidental drug misuse/unintentional poisoning by drugs^b	Accident in the use of drugs	99	83	78	131	162	232	227	276	293	366	384
Suicide by drugs	Suicidal poisoning by drugs or medicaments	72	66	61	78	85	81	108	56	73	87	101
Homicide by drugs	Assault by drugs or medicaments	1	0	1	0	1	0	0	1	2	1	1
Undetermined whether accidentally or purposely inflicted	An investigation by medical or legal authority has not determined whether poisoning by drugs and medicaments is accidental, suicidal or homicidal	6	9	20	17	20	18	18	21	27	37	37
Total drug-related deaths		198	174	185	283	310	356	395	403	405	507	541

* International Classification of Diseases, Adapted-Ninth Revision, Geneva: World Health Organization, 1977.

^a Includes death attributable to drug psychoses, drug dependence and non-dependent abuse of drugs.

^b Includes death attributable to accidental poisoning by drugs and medicaments and adverse effects of drugs in therapeutic use.

TABLE 2
MORTALITY RATES AND PERCENT DISTRIBUTION OF DRUG-RELATED MORTALITY
BY CIRCUMSTANCES AND CONDITIONS RESULTING IN DEATH, ARIZONA, 1989-1999

CIRCUMSTANCES AND CONDITIONS	MORTALITY RATES										
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Drug dependence and drug abuse^a	0.5	0.4	0.7	1.5	1.8	0.6	1.0	1.1	0.2	0.3	0.3
Accidental drug misuse^a	2.7	2.2	2.1	3.3	4.0	5.7	5.4	6.2	6.4	7.8	7.8
Suicide by drugs^a	1.9	1.8	1.6	2.0	2.2	2.0	2.6	1.3	1.6	1.8	2.1
Homicide by drugs^a	0.0	--	0.0	--	0.0	--	--	0.0	0.0	0.0	0.0
Undetermined^a	0.2	0.2	0.5	0.4	0.5	0.4	0.4	0.5	0.6	0.8	0.8
Total, all drug-related deaths^b	5.4	4.6	4.8	7.0	7.6	8.5	9.2	8.8	8.5	10.6	10.7
CIRCUMSTANCES AND CONDITIONS	PERCENT DISTRIBUTION										
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Drug dependence and drug abuse	10.1	9.3	13.5	20.3	13.8	7.0	10.6	12.2	2.5	3.2	2.6
Accidental drug misuse	50.0	47.1	42.2	45.9	51.3	65.2	57.5	68.5	72.3	72.2	71.0
Suicide by drugs	36.4	38.4	33.0	27.8	28.0	22.8	27.4	13.9	18.0	17.2	18.6
Homicide by drugs	0.5	--	0.5	--	0.3	--	--	0.3	0.5	0.1	0.2
Undetermined	3.0	5.2	10.8	6.0	6.6	5.0	4.6	5.2	6.7	7.3	7.6
Total, all drug-related deaths^c	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

^a Number of drug-related deaths per 100,000 population.

^b Age-adjusted mortality rates.

^c Total may not add due to rounding.

0.0 Quantity equal or less than 0.05.

-- Quantity zero.

TABLE 3
NUMBER OF DRUG-RELATED DEATHS BY TYPE OF DRUG AND YEAR, ARIZONA, 1989-1999

TYPE OF DRUG	COMMENTS ^a	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Cocaine Type^b	Cocaine leaves and derivatives	29	12	31	33	32	37	22	35	23	40	62
Morphine Type	Heroin, methadone, opium and combinations of morphine with any other drug	34	33	27	43	56	69	95	85	50	75	96
Barbiturates, Tranquilizers and other Psychotropic Agents	Barbiturates, non-barbiturates sedatives and tranquilizers, anti-depressants, hallucinogens and psycho-stimulants	51	40	29	35	56	52	45	28	39	37	48
Other, Mixed and Unspecified	Excludes alcohol and tobacco	84	89	98	172	166	198	233	255	293	355	335
All Types		198	174	185	283	310	356	395	403	405	507	541

^a See International Classification of Diseases, Adapted-Ninth Revision, Geneva: World Health Organization, 1977.

^b Includes cocaine type deaths attributed to unintentional drug misuse and also those classified in terms of drug dependence and drug abuse.

TABLE 4
MORTALITY RATES^a AND PERCENT DISTRIBUTION OF DRUG-RELATED
DEATHS BY TYPE OF DRUG AND YEAR, ARIZONA, 1989-1999

TYPE OF DRUG	MORTALITY RATES										
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Cocaine Type^a	0.8	0.3	0.8	0.9	0.8	0.9	0.5	0.8	0.5	0.8	1.3
Morphine Type^a	0.9	0.9	0.7	1.1	1.4	1.7	2.3	1.9	1.1	1.6	2.0
Barbiturates, Tranquilizers and Other Psychotropic Agents^a	1.4	1.1	0.8	1.0	1.5	1.3	1.1	0.6	0.8	0.8	1.0
Other, Mixed and Unspecified^a	2.2	2.3	2.6	4.3	4.0	4.9	5.6	5.7	6.4	7.5	6.8
All Types^b	5.4	4.6	4.8	7.0	7.6	8.5	9.2	8.8	8.5	10.6	10.7
TYPE OF DRUG	PERCENT DISTRIBUTION										
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Cocaine Type	14.6	7.0	16.8	11.7	10.5	10.4	5.6	8.7	5.7	7.9	11.5
Morphine Type	17.2	19.2	14.6	15.3	18.4	19.4	24.0	21.1	12.3	14.8	17.7
Barbiturates, Tranquilizers and Other Psychotropic Agents	26.3	24.4	16.2	14.2.	19.1	14.6	11.4	6.9	9.6	7.3	8.9
Other, Mixed and Unspecified	41.9	49.4	52.4	58.7	52.0	55.6	59.0	63.3	72.4	70.0	61.9
All Types^c	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

^a Number of drug-related deaths per 100,000 population.

^b Age-adjusted mortality rates.

^c Total may not add due to rounding.

TABLE 5
DRUG-RELATED MORTALITY BY CIRCUMSTANCES AND CONDITIONS RESULTING IN DEATH, TYPE OF DRUG AND YEAR,
ARIZONA, 1989-1999

		1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total	Cocaine type	29	12	31	33	32	37	22	35	23	40	62
	Morphine type	34	33	27	43	56	69	95	85	50	75	96
	Barbiturates, tranquilizers and other psychotropic agents	51	40	29	35	56	52	45	28	39	37	48
	Other, mixed and unspecified	84	89	98	172	166	198	233	255	293	355	335
	Total	198	174	185	283	310	356	395	403	405	507	541
Drug dependence and drug abuse	Cocaine type	0	1	1	6	4	0	0	0	0	1	0
	Morphine type	3	4	11	19	7	3	1	3	1	3	0
	Barbiturates, tranquilizers and other psychotropic agents	0	0	0	2	2	0	0	1	1	1	0
	Other, mixed and unspecified	17	11	13	30	29	22	41	45	8	11	14
	Total	20	16	25	57	42	25	42	49	10	16	14
Accidental drug misuse	Cocaine type	29	11	30	27	28	37	22	35	23	39	62
	Morphine type	31	29	16	24	49	66	94	82	49	72	96
	Barbiturates, tranquilizers and other psychotropic agents	10	7	6	12	22	32	20	13	19	12	20
	Other, mixed and unspecified	29	36	26	68	63	97	91	146	202	243	206
	Total	99	83	78	131	162	232	227	276	293	366	384
Suicide by drugs	Barbiturates, tranquilizers and other psychotropic agents	40	30	17	19	28	17	22	13	15	15	22
	Other, mixed and unspecified	32	36	44	59	57	64	86	43	58	72	79
	Total	72	66	61	78	85	81	108	56	73	87	101
Homicide by drugs	Other, mixed and unspecified	1	0	1	0	1	0	0	1	2	1	1
	Total	1	0	1	0	1	0	0	1	2	1	1
Undetermined	Barbiturates, tranquilizers and other psychotropic agents	1	3	6	2	4	3	3	1	4	9	6
	Other, mixed and unspecified	5	6	14	15	16	15	15	20	23	28	35
	Total	6	9	20	17	20	18	18	21	27	37	41

TABLE 6
DRUG-RELATED MORTALITY BY CIRCUMSTANCES AND CONDITIONS RESULTING IN DEATH, ETHNIC GROUP AND YEAR,
ARIZONA, 1989-1999

		1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total	Drug dependence and drug abuse	20	16	25	57	42	25	42	49	10	16	14
	Accidental drug misuse	99	83	78	131	162	232	227	276	293	366	384
	Suicide by drugs	72	66	61	78	85	81	108	56	73	87	101
	Homicide by drugs	1	0	1	0	1	0	0	1	2	1	1
	Undetermined	6	9	20	17	20	18	18	21	27	37	41
	Total	198	174	185	283	310	356	395	403	405	507	541
White non-Hispanic	Drug dependence and drug abuse	10	12	19	37	31	13	27	38	4	10	7
	Accidental drug misuse	61	58	52	90	122	152	162	185	190	252	264
	Suicide by drugs	64	54	49	64	76	71	101	47	68	80	81
	Homicide by drugs	1	0	1	0	1	0	0	1	2	1	1
	Undetermined	6	8	16	13	13	14	15	14	24	29	33
	Total	142	132	137	204	243	250	305	285	288	372	386
Hispanic	Drug dependence and drug abuse	8	4	5	12	7	10	9	7	2	3	6
	Accidental drug misuse	31	17	17	27	28	42	47	61	61	75	80
	Suicide by drugs	5	6	8	6	5	2	4	5	0	4	10
	Undetermined	0	1	3	2	2	1	2	3	3	5	3
	Total	44	28	33	47	42	55	62	76	66	87	99
Black	Drug dependence and drug abuse	0	0	0	3	2	1	3	2	1	1	0
	Accidental drug misuse	4	3	6	8	8	15	9	17	19	17	23
	Suicide by drugs	3	2	3	2	0	3	2	0	3	0	3
	Undetermined	0	0	0	0	2	0	0	1	0	0	3
	Total	7	5	9	13	12	19	14	20	23	18	29
American Indian	Drug dependence and drug abuse	2	0	1	3	2	1	2	2	3	2	1
	Accidental drug misuse	3	5	3	6	4	23	8	10	17	19	16
	Suicide by drugs	0	4	1	5	4	2	1	4	2	2	5
	Undetermined	0	0	1	2	3	2	1	3	0	3	2
	Total	5	9	6	16	13	28	12	19	22	26	24
Asian	Drug dependence and drug abuse	0	0	0	2	0	0	1	0	0	0	0
	Accidental drug misuse	0	0	0	0	0	0	0	0	2	1	1
	Suicide by drugs	0	0	0	0	0	3	0	0	0	1	2
	Undetermined	0	0	0	0	0	1	0	0	0	0	0
	Total	0	0	0	2	0	4	1	0	2	2	3
Other/Unknown	Accidental drug misuse	0	0	0	0	0	0	1	3	4	2	0
	Suicide by drugs	0	0	0	1	0	0	0	0	0	0	0
	Total	0	0	0	1	0	0	1	3	4	2	0

TABLE 7
DRUG-RELATED MORTALITY BY TYPE OF DRUG AND YEAR FOR EACH ETHNIC GROUP, ARIZONA, 1989-1999

		1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total	Cocaine type	29	12	31	33	32	37	22	35	23	40	62
	Morphine type	34	33	27	43	56	69	95	85	50	75	96
	Barbiturates, tranquilizers and other psychotropic agents	51	40	29	35	56	52	45	28	39	37	48
	Other, mixed and unspecified	84	89	98	172	166	198	233	255	293	355	335
	Total	198	174	185	283	310	356	395	403	405	507	541
White non-Hispanic	Cocaine type	19	4	23	15	20	14	15	17	11	19	26
	Morphine type	18	21	17	30	39	46	64	57	34	51	74
	Barbiturates, tranquilizers and other psychotropic agents	43	34	23	27	51	47	38	27	35	29	42
	Other, mixed and unspecified	62	73	74	132	133	143	188	184	208	273	244
	Total	142	132	137	204	243	250	305	285	288	372	386
Hispanic	Cocaine type	9	3	4	10	5	10	3	9	5	12	21
	Morphine type	13	12	8	8	14	14	26	22	11	16	17
	Barbiturates, tranquilizers and other psychotropic agents	4	3	5	6	1	1	3	0	1	4	2
	Other, mixed and unspecified	18	10	16	23	22	30	30	45	49	55	59
	Total	44	28	33	47	42	55	62	76	66	87	99
Black	Cocaine type	1	2	3	6	7	6	3	9	4	6	11
	Morphine type	1	0	1	2	1	2	2	1	1	1	1
	Barbiturates, tranquilizers and other psychotropic agents	4	1	1	1	2	1	2	0	1	0	2
	Other, mixed and unspecified	1	2	4	4	2	10	7	10	17	11	15
	Total	7	5	9	13	12	19	14	20	23	18	29
American Indian	Cocaine type	0	3	1	1	0	7	1	0	3	2	4
	Morphine type	2	0	1	2	2	7	2	3	3	6	4
	Barbiturates, tranquilizers and other psychotropic agents	0	2	0	1	2	2	2	1	2	3	1
	Other, mixed and unspecified	3	4	4	12	9	12	7	15	14	15	15
	Total	5	9	6	16	13	28	12	19	22	26	24
Asian	Cocaine type	0	0	0	1	0	0	0	0	0	0	0
	Morphine type	0	0	0	1	0	0	0	0	1	1	0
	Barbiturates, tranquilizers and other psychotropic agents	0	0	0	0	0	1	0	0	0	1	1
	Other, mixed and unspecified	0	0	0	0	0	3	1	0	1	0	2
	Total	0	0	0	2	0	4	1	0	2	2	3
Other/Unknown	Cocaine type	0	0	0	0	0	0	0	0	0	1	0
	Morphine type	0	0	0	0	0	0	1	2	0	0	0
	Other, mixed and unspecified	0	0	0	1	0	0	0	1	4	1	0
	Total	0	0	0	1	0	0	1	3	4	2	0

TABLE 8
DRUG RELATED DEATH RATES BY MORTALITY CATEGORY AND ETHNIC GROUP, ARIZONA, 1999

Mortality Category	Mortality Rates ^a by Ethnic Group				
	White non-Hispanic	Hispanic	Black	American Indian	All Ethnic Groups
Total drug-related deaths^b	11.6	9.3	16.5	9.1	11.0
--due to drug dependence and drug abuse^b	0.2	0.6	0.0	0.4	0.3
--due to accidental drug misuse	8.0	7.5	13.1	6.0	7.8
--suicide by drugs	2.4	0.9	1.7	1.9	2.1
Cocaine-related deaths^c	0.8	2.0	6.2	1.5	1.3
Morphine-related deaths^c	2.2	1.6	0.6	1.5	2.0
Deaths related to barbiturates, tranquilizers and other psychotropic agents^c	1.3	0.2	1.1	0.4	1.0
Deaths related to other, mixed and unspecified drugs	7.4	5.6	8.5	5.7	6.8
Drug-related deaths among persons 15-19 years old^d	1.0	4.3	0.0	0.0	1.8
Drug-related deaths among persons 20-44 years old^d	20.7	16.5	29.7	15.9	19.4
Drug-related deaths among persons 46-64 years old^d	15.9	17.3	17.6	20.7	16.1

^a Total number of drug-related deaths per 100,000 persons in specified group in 1999.

^b Number of drug-related deaths by ethnic group is given in Table 6.

^c Number of drug-related deaths by type of drug and ethnicity is given in Table 7.

^d Number of drug-related deaths by age group and ethnicity is given in Table 9.

TABLE 9
DRUG-RELATED MORTALITY BY ETHNIC GROUP AND YEAR FOR EACH AGE GROUP, ARIZONA, 1989-1999

		1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total	<1	1	0	0	0	0	1	0	0	0	0	0
	1-14	0	3	0	0	2	2	2	0	5	1	1
	15-19	7	8	7	9	7	4	7	3	6	7	6
	20-44	143	115	130	202	215	248	282	295	260	343	350
	45-64	35	33	34	45	67	75	80	81	103	138	159
	65+	12	15	14	26	18	26	23	20	27	17	22
	Unknown	0	0	0	1	1	0	1	4	4	1	3
	Total	198	174	185	283	310	356	395	403	405	507	541
White non-Hispanic	<1	0	0	0	0	0	1	0	0	0	0	0
	1-14	0	1	0	0	2	1	1	0	2	0	0
	15-19	4	6	5	6	4	2	5	3	1	3	2
	20-44	98	84	93	135	163	171	209	202	177	238	241
	45-64	28	27	27	38	57	52	68	60	83	115	121
	65+	12	14	12	25	16	23	21	19	24	15	20
	Unknown	0	0	0	0	1	0	1	1	1	1	2
	Total	142	132	137	204	243	250	305	285	288	372	386
Hispanic	1-14	0	0	0	0	0	0	0	0	2	1	0
	15-19	1	1	2	2	3	2	1	0	5	1	4
	20-44	38	22	25	41	31	42	52	65	47	68	70
	45-64	5	5	5	4	6	9	7	11	11	15	25
	65+	0	0	1	0	2	2	2	0	1	2	0
	Total	44	28	33	47	42	55	62	76	66	87	99
Black	<1	1	0	0	0	0	0	0	0	0	0	0
	1-14	0	0	0	0	0	0	1	0	1	0	0
	15-19	2	0	0	0	0	0	0	0	0	0	0
	20-44	4	5	8	11	12	10	9	16	17	12	22
	45-64	0	0	0	2	0	9	4	4	4	6	5
	65+	0	0	1	0	0	0	0	0	1	0	1
	Unknown	0	0	0	0	0	0	0	0	0	0	1
	Total	7	5	9	13	12	19	14	20	23	18	29
American Indian	1-14	0	2	0	0	0	1	0	0	0	0	1
	15-19	0	1	0	1	0	0	1	0	0	2	0
	20-44	3	4	4	13	9	23	10	12	18	22	16
	45-64	2	1	2	1	4	3	1	6	3	2	7
	65+	0	1	0	1	0	1	0	1	1	0	0
	Total	5	9	6	16	13	28	12	19	22	26	24
Asian	15-19	0	0	0	0	0	0	0	0	0	1	0
	20-44	0	0	0	2	0	2	1	0	1	1	1
	45-64	0	0	0	0	0	2	0	0	1	0	1
	65+	0	0	0	0	0	0	0	0	0	0	1
	Total	0	0	0	2	0	4	1	0	2	2	3
Other/Unknown	20-44	0	0	0	0	0	0	1	0	0	2	0
	45-64	0	0	0	0	0	0	0	0	1	0	0
	Unknown	0	0	0	1	0	0	0	3	3	0	0
	Total	0	0	0	1	0	0	1	3	4	2	0

TABLE 10
DRUG-RELATED MORTALITY BY CIRCUMSTANCES AND CONDITIONS RESULTING IN DEATH, AGE GROUP AND YEAR,
ARIZONA, 1989-1999

		1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total	Drug dependence and drug abuse	20	16	25	57	42	25	42	49	10	16	14
	Accidental drug misuse	99	83	78	131	162	232	227	276	293	366	384
	Suicide by drugs	72	66	61	78	85	81	108	56	73	87	101
	Homicide by drugs	1	0	1	0	1	0	0	1	2	1	1
	Undetermined	6	9	20	17	20	18	18	21	27	37	41
	Total	198	174	185	283	310	356	395	403	405	507	541
<1	Drug dependence and drug abuse	0	0	0	0	0	1	0	0	0	0	0
	Accidental drug misuse	1	0	0	0	0	0	0	0	0	0	0
	Total	1	0	0	0	0	1	0	0	0	0	0
1-14	Accidental drug misuse	0	1	0	0	2	0	1	0	2	0	1
	Suicide by drugs	0	2	0	0	0	2	1	0	0	1	0
	Homicide by drugs	0	0	0	0	0	0	0	0	2	0	0
	Undetermined	0	0	0	0	0	0	0	0	1	0	0
	Total	0	3	0	0	2	2	2	0	5	1	1
	Drug dependence and drug abuse	0	2	0	1	0	0	0	0	0	1	0
15-19	Accidental drug misuse	3	2	3	3	1	3	5	3	6	5	5
	Suicide by drugs	4	4	4	4	5	1	1	0	0	1	1
	Undetermined	0	0	0	1	1	0	1	0	0	0	0
	Total	7	8	7	9	7	4	7	3	6	7	6
	Drug dependence and drug abuse	18	12	25	47	35	21	32	43	9	13	6
	Accidental drug misuse	86	61	65	100	120	179	170	205	202	259	269
20-44	Suicide by drugs	34	35	31	42	44	39	67	31	34	50	53
	Homicide by drugs	0	0	0	0	1	0	0	1	0	0	0
	Undetermined	5	7	9	13	15	9	13	15	15	21	22
	Total	143	115	130	202	215	248	282	295	260	343	350
	Drug dependence and drug abuse	1	2	0	8	7	3	9	6	1	1	8
	Accidental drug misuse	8	14	8	17	32	39	41	56	72	94	101
45-64	Suicide by drugs	24	15	16	19	26	25	26	13	23	28	35
	Homicide by drugs	1	0	0	0	0	0	0	0	0	1	1
	Undetermined	1	2	10	1	2	8	4	6	7	14	14
	Total	35	33	34	45	67	75	80	81	103	138	159
	Drug dependence and drug abuse	1	0	0	1	0	0	0	0	0	1	0
	Accidental drug misuse	1	5	2	11	6	11	10	8	7	7	6
65+	Suicide by drugs	10	10	10	12	10	14	13	12	16	7	12
	Homicide by drugs	0	0	1	0	0	0	0	0	0	0	0
	Undetermined	0	0	1	2	2	1	0	0	4	2	4
	Total	12	15	14	26	18	26	23	20	27	17	22
	Drug dependence and drug abuse	0	0	0	0	0	0	1	0	0	0	0
	Accidental drug misuse	0	0	0	0	1	0	0	4	4	1	2
Unknown	Suicide by drugs	0	0	0	1	0	0	0	0	0	0	0
	Undetermined	0	0	0	0	0	0	0	0	0	0	1
	Total	0	0	0	1	1	0	1	4	4	1	3

TABLE 11
DRUG-RELATED MORTALITY BY TYPE OF DRUG AND AGE GROUP BY YEAR, ARIZONA, 1989-1999

		1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total	Cocaine type	29	12	31	33	32	37	22	35	23	40	62
	Morphine type	34	33	27	43	56	69	95	85	50	75	96
	Barbiturates, tranquilizers and other psychotropic agents	51	40	29	35	56	52	45	28	39	37	48
	Other, mixed and unspecified	84	89	98	172	166	198	233	255	293	355	335
	Total	198	174	185	283	310	356	395	403	405	507	541
<1	Cocaine type	1	0	0	0	0	0	0	0	0	0	0
	Morphine type	0	0	0	0	0	1	0	0	0	0	0
	Total	1	0	0	0	0	1	0	0	0	0	0
1-14	Cocaine type	0	1	0	0	1	0	0	0	0	0	0
	Morphine type	0	0	0	0	1	0	1	0	0	0	0
	Barbiturates, tranquilizers and other psychotropic agents	0	1	0	0	0	0	1	0	0	1	0
	Other, mixed and unspecified	0	1	0	0	0	2	0	0	5	0	1
	Total	0	3	0	0	2	2	2	0	5	1	1
15-19	Cocaine type	1	1	0	3	1	0	0	1	0	1	2
	Morphine type	0	0	0	0	0	1	1	1	0	1	2
	Barbiturates, tranquilizers and other psychotropic agents	3	4	4	1	1	3	2	0	0	2	0
	Other, mixed and unspecified	3	3	3	5	5	0	4	1	6	3	2
	Total	7	8	7	9	7	4	7	3	6	7	6
20-44	Cocaine type	26	10	31	27	25	30	18	29	20	31	43
	Morphine type	33	26	26	38	44	55	79	63	35	54	62
	Barbiturates, tranquilizers and other psychotropic agents	30	20	14	22	40	34	33	17	27	22	32
	Other, mixed and unspecified	54	59	59	115	106	129	152	186	178	236	213
	Total	143	115	130	202	215	248	282	295	260	343	350
45-64	Cocaine type	1	0	0	3	5	7	4	5	2	8	15
	Morphine type	1	6	1	4	10	10	13	18	14	19	30
	Barbiturates, tranquilizers and other psychotropic agents	15	8	8	7	12	12	7	7	6	9	10
	Other, mixed and unspecified	18	19	25	31	40	46	56	51	81	102	104
	Total	35	33	34	45	67	75	80	81	103	138	159
65+	Cocaine type	0	0	0	0	0	0	0	0	1	0	1
	Morphine type	0	1	0	1	0	2	1	1	0	1	2
	Barbiturates, tranquilizers and other psychotropic agents	3	7	3	5	3	3	2	4	6	3	6
	Other, mixed and unspecified	9	7	11	20	15	21	20	15	20	13	13
	Total	12	15	14	26	18	26	23	20	27	17	22
Un-known	Cocaine type	0	0	0	0	0	0	0	0	0	0	1
	Morphine type	0	0	0	0	1	0	0	2	1	0	0
	Other, mixed and unspecified	0	0	0	1	0	0	1	2	3	1	2
	Total	0	0	0	1	1	0	1	4	4	1	3

TABLE 12
DRUG-RELATED MORTALITY IN URBAN AND RURAL AREAS BY CIRCUMSTANCES
AND CONDITIONS RESULTING IN DEATH BY YEAR, ARIZONA, 1989-1999

		1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total	Drug dependence and drug abuse	20	16	25	57	42	25	42	49	10	16	14
	Accidental drug misuse	99	83	78	131	162	232	227	276	293	366	384
	Suicide by drugs	72	66	61	78	85	81	108	56	73	87	101
	Homicide by drugs	1	0	1	0	1	0	0	1	2	1	1
	Undetermined	6	9	20	17	20	18	18	21	27	37	41
	Total	198	174	185	283	310	356	395	403	405	507	541
Urban	Drug dependence and drug abuse	19	15	25	52	37	22	35	41	8	14	14
	Accidental drug misuse	87	74	74	104	141	203	200	239	261	318	344
	Suicide by drugs	59	55	57	55	68	63	91	48	61	66	78
	Homicide by drugs	1	0	1	0	1	0	0	1	2	1	0
	Undetermined	5	7	16	12	10	14	15	9	17	21	33
	Total	171	151	173	223	257	302	341	338	349	420	469
Rural	Drug dependence and drug abuse	1	1	0	5	4	2	3	6	0	1	0
	Accidental drug misuse	12	9	4	25	19	27	23	31	24	41	39
	Suicide by drugs	13	11	4	21	13	18	12	6	8	19	21
	Homicide by drugs	0	0	0	0	0	0	0	0	0	0	1
	Undetermined	1	2	4	4	5	3	1	7	7	12	8
	Total	27	23	12	55	41	50	39	50	39	73	69

TABLE 13
DRUG-RELATED MORTALITY IN URBAN AND RURAL AREAS BY TYPE OF DRUG AND YEAR,
ARIZONA, 1989-1999

		1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total	Cocaine type	29	12	31	33	32	37	22	35	23	40	62
	Morphine type	34	33	27	43	56	69	95	85	50	75	96
	Barbiturates, tranquilizers and other psychotropic agents	51	40	29	35	56	52	45	28	39	37	48
	Other, mixed and unspecified	84	89	98	172	166	198	233	255	293	355	335
	Total	198	174	185	283	310	356	395	403	405	507	541
Urban	Cocaine type	25	12	29	28	27	29	21	29	20	32	57
	Morphine type	31	32	27	41	50	65	87	79	40	61	81
	Barbiturates, tranquilizers and other psychotropic agents	44	31	28	24	50	40	36	28	28	29	39
	Other, mixed and unspecified	71	76	89	130	130	168	197	202	261	298	292
	Total	171	151	173	223	257	302	341	338	349	420	469
Rural	Cocaine type	4	0	2	5	4	7	1	6	2	7	4
	Morphine type	3	1	0	0	6	3	6	5	4	9	15
	Barbiturates, tranquilizers and other psychotropic agents	7	9	1	10	3	12	7	0	7	8	8
	Other, mixed and unspecified	13	13	9	40	28	28	25	39	26	49	42
	Total	27	23	12	55	41	50	39	50	39	73	69

TABLE 14
DRUG-RELATED MORTALITY BY CIRCUMSTANCES AND CONDITIONS RESULTING IN DEATH, BY GENDER AND YEAR,
ARIZONA, 1989-1999

		1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total	Cocaine type	29	12	31	33	32	37	22	35	23	40	62
	Morphine type	34	33	27	43	56	69	95	85	50	75	96
	Barbiturates, tranquilizers and other psychotropic agents	51	40	29	35	56	52	45	28	39	37	48
	Other, mixed and unspecified	84	89	98	172	166	198	233	255	293	355	335
	Total	198	174	185	283	310	356	395	403	405	507	541
Male	Cocaine type	22	9	26	26	27	28	19	26	20	31	53
	Morphine type	31	29	23	38	49	58	83	78	43	64	75
	Barbiturates, tranquilizers and other psychotropic agents	26	25	13	18	33	31	30	19	31	22	28
	Other, mixed and unspecified	57	62	57	123	109	129	144	176	205	241	238
	Total	136	125	119	205	218	246	276	299	299	358	394
Female	Cocaine type	7	3	5	7	5	9	3	9	3	9	9
	Morphine type	3	4	4	5	7	11	12	7	7	11	21
	Barbiturates, tranquilizers and other psychotropic agents	25	15	16	17	23	21	15	9	8	15	20
	Other, mixed and unspecified	27	27	41	49	57	69	89	79	88	114	97
	Total	62	49	66	78	92	110	119	104	106	149	147

TABLE 15
DRUG-RELATED MORTALITY BY TYPE OF DRUG, GENDER AND YEAR, ARIZONA, 1989-1999

		1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total	Drug dependence and drug abuse	20	16	25	57	42	25	42	49	10	16	14
	Accidental drug misuse	99	83	78	131	162	232	227	276	293	366	384
	Suicide by drugs	72	66	61	78	85	81	108	56	73	87	101
	Homicide by drugs	1	0	1	0	1	0	0	1	2	1	1
	Undetermined	6	9	20	17	20	18	18	21	27	37	41
	Total	198	174	185	283	310	356	395	403	405	507	541
Male	Drug dependence and drug abuse	12	14	21	50	32	22	36	36	8	13	13
	Accidental drug misuse	79	66	61	101	128	173	184	224	239	287	304
	Suicide by drugs	41	39	26	44	42	43	46	26	35	41	56
	Homicide by drugs	1	0	0	0	0	0	0	1	0	0	0
	Undetermined	3	6	11	10	16	8	10	12	17	17	21
	Total	136	125	119	205	218	246	276	299	299	358	394
Female	Drug dependence and drug abuse	8	2	4	7	10	3	6	13	2	3	1
	Accidental drug misuse	20	17	17	30	34	59	43	52	54	79	80
	Suicide by drugs	31	27	35	34	43	38	62	30	38	46	45
	Homicide by drugs	0	0	1	0	1	0	0	0	2	1	1
	Undetermined	3	3	9	7	4	10	8	9	10	20	20
	Total	62	49	66	78	92	110	119	104	106	149	147

TABLE 16
DRUG-RELATED MORTALITY BY CIRCUMSTANCES AND CONDITIONS
RESULTING IN DEATH, BY MARITAL STATUS AND YEAR, ARIZONA, 1989-1999

		1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total	Drug dependence and drug abuse	20	16	25	57	42	25	42	49	10	16	14
	Accidental drug misuse	99	83	78	131	162	232	227	276	293	366	384
	Suicide by drugs	72	66	61	78	85	81	108	56	73	87	101
	Homicide by drugs	1	0	1	0	1	0	0	1	2	1	1
	Undetermined	6	9	20	17	20	18	18	21	27	37	41
	Total	198	174	185	283	310	356	395	403	405	507	541
Single, Never Married	Drug dependence and drug abuse	5	6	12	25	16	11	12	13	5	8	3
	Accidental drug misuse	39	29	34	48	59	93	70	87	113	143	153
	Suicide by drugs	19	23	22	21	22	25	32	20	19	20	24
	Homicide by drugs	0	0	0	0	1	0	0	0	2	0	0
	Undetermined	1	3	5	2	10	5	10	5	8	8	10
	Total	64	61	73	96	108	134	124	125	147	179	190
Married	Drug dependence and drug abuse	8	6	5	14	12	4	7	13	1	5	4
	Accidental drug misuse	28	20	21	33	42	54	73	72	68	77	90
	Suicide by drugs	31	20	18	21	26	22	36	16	22	29	41
	Homicide by drugs	1	0	1	0	0	0	0	0	0	1	0
	Undetermined	4	3	5	5	4	7	2	8	6	14	11
	Total	72	49	50	73	84	87	118	109	97	126	146
Widowed	Drug dependence and drug abuse	1	0	0	1	1	1	1	0	0	0	0
	Accidental drug misuse	4	1	1	7	6	13	7	8	8	15	8
	Suicide by drugs	5	5	5	7	5	5	9	5	12	8	7
	Undetermined	0	0	3	1	0	2	1	0	4	4	3
	Total	10	6	9	16	12	21	18	13	24	27	18
Divorced	Drug dependence and drug abuse	6	4	8	15	11	7	18	20	4	2	4
	Accidental drug misuse	26	30	21	39	52	62	70	82	88	112	117
	Suicide by drugs	16	18	16	28	31	27	29	15	20	28	28
	Homicide by drugs	0	0	0	0	0	0	0	1	0	0	1
	Undetermined	1	3	7	9	6	4	4	8	9	11	15
	Total	49	55	52	91	100	100	121	126	121	153	165
Unknown	Drug dependence and drug abuse	0	0	0	2	2	2	4	3	0	1	3
	Accidental drug misuse	2	3	1	4	3	10	7	27	16	19	16
	Suicide by drugs	1	0	0	1	1	2	2	0	0	2	0
	Undetermined	0	0	0	0	0	0	1	0	0	0	2
	Total	3	3	1	7	6	14	14	30	16	22	21

TABLE 17
DRUG-RELATED MORTALITY BY TYPE OF DRUG, MARITAL STATUS AND YEAR, ARIZONA, 1989-1999

		1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total	Cocaine type	29	12	31	33	32	37	22	35	23	40	62
	Morphine type	34	33	27	43	56	69	95	85	50	75	96
	Barbiturates, tranquilizers and other psychotropic agents	51	40	29	35	56	52	45	28	39	37	48
	Other, mixed and unspecified	84	89	98	172	166	198	233	255	293	355	335
	Total	198	174	185	283	310	356	395	403	405	507	541
Single, Never Married	Cocaine type	14	4	12	14	10	18	8	17	9	17	19
	Morphine type	12	10	15	17	28	28	33	27	19	35	40
	Barbiturates, tranquilizers and other psychotropic agents	17	17	13	9	19	22	19	13	17	13	15
	Other, mixed and unspecified	21	30	33	56	51	66	64	68	102	114	116
	Total	64	61	73	96	108	134	124	125	147	179	190
Married	Cocaine type	7	2	10	9	11	9	8	8	8	8	17
	Morphine type	12	8	5	6	9	12	26	24	13	11	32
	Barbiturates, tranquilizers and other psychotropic agents	19	10	8	9	12	13	14	4	8	10	12
	Other, mixed and unspecified	34	29	27	49	52	53	70	73	68	97	85
	Total	72	49	50	73	84	87	118	109	97	126	146
Widowed	Cocaine type	2	0	0	0	0	2	0	0	0	1	1
	Morphine type	0	1	0	1	3	1	4	1	1	3	3
	Barbiturates, tranquilizers and other psychotropic agents	3	2	0	4	2	1	2	2	1	4	5
	Other, mixed and unspecified	5	3	9	11	7	17	12	10	22	19	9
	Total	10	6	9	16	12	21	18	13	24	27	18
Divorced	Cocaine type	6	5	9	9	10	7	6	9	6	11	21
	Morphine type	8	13	6	16	15	25	29	20	12	26	19
	Barbiturates, tranquilizers and other psychotropic agents	12	11	8	12	22	13	9	9	13	9	14
	Other, mixed and unspecified	23	26	29	54	53	55	77	88	90	107	111
	Total	49	55	52	91	100	100	121	126	121	153	165
Unknown	Cocaine type	0	1	0	1	1	1	0	1	0	3	4
	Morphine type	2	1	1	3	1	3	3	13	5	0	2
	Barbiturates, tranquilizers and other psychotropic agents	0	0	0	1	1	3	1	0	0	1	1
	Other, mixed and unspecified	1	1	0	2	3	7	10	16	11	18	14
	Total	3	3	1	7	6	14	14	30	16	22	21

TABLE 18
DRUG-RELATED DEATHS BY COUNTY OF RESIDENCE AND YEAR, ARIZONA, 1989-1999

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Apache	1	2	1	2	1	6	3	1	0	5	0
Cochise	3	5	2	5	4	8	2	7	6	9	11
Coconino	1	5	0	6	4	3	2	6	2	10	9
Gila	1	1	1	2	5	5	5	4	5	9	5
Graham	2	1	1	2	2	0	1	6	2	2	7
Greenlee	1	1	0	0	1	0	0	0	0	1	0
Maricopa	110	105	123	149	163	214	224	230	241	298	314
Mohave	0	1	1	11	11	9	8	7	10	6	9
Navajo	3	1	1	2	2	6	2	3	3	7	12
Pima	61	44	49	71	82	73	95	97	91	108	135
Pinal	4	4	1	14	8	12	14	6	12	8	9
Santa Cruz	0	1	1	0	3	0	4	2	2	5	3
Yavapai	9	1	2	11	8	12	9	13	7	15	10
Yuma	2	2	1	3	4	3	8	5	5	6	11
La Paz	0	0	1	0	0	1	3	1	2	4	3
Unknown	0	0	0	5	12	4	15	15	17	14	3
Total	198	174	185	283	310	356	395	403	405	507	541

TABLE 19
CHANGES IN THE NUMBER OF DEATHS FROM UNINTENTIONAL POISONING BY DRUGS, MEDICAMENTS AND BIOLOGICALS,
ARIZONA, 1989-1999

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
E.850.0 Opiates and related narcotics (codeine, morphine, opium, heroin, methadone)	31	29	15	24	48	64	94	82	49	72	94
E850.1-E.850.9 Analgesics, antipyretics, antirheumatics	3	3	1	6	2	5	6	5	10	9	7
E851-E853, E854.0-E854.1, E854.3 Barbiturates, tranquilizers, sedatives and other psychotropic agents	4	4	4	4	9	8	4	5	4	3	3
E854.2 Psychostimulants (amphetamine)	4	2	2	5	12	22	15	8	13	7	16
E855.0-E855.1, E855.3-E855.9 Central nervous system depressants	1	1	0	1	1	1	1	0	1	2	1
E855.2 Local anaesthetics (cocaine, lidocaine, procaine, tetracaine)	29	11	30	27	28	37	22	35	23	39	62
E856-E857 Antibiotics and anti-infectives	0	1	0	0	0	0	0	0	0	0	0
E858.0-E858.7 Other specified medicaments	2	3	2	5	3	3	4	3	4	3	4
E858.8-E858.9 Other unspecified drugs and medicaments	24	27	23	53	50	83	73	129	182	226	194
Total	98	81	77	125	153	223	219	267	286	361	381

Our Web site at <http://www.hs.state.az.us/plan/ohpes.htm> provides instantaneous access to a wide range of statistical information about health status and use of health care in Arizona. The [Arizona Health Status and Vital Statistics](#) annual report examines trends in natality, mortality and morbidity towards established health objectives. Additional data can be found in the special reports and studies focused on differences in the health status by ethnic group, suicide mortality, unintentional injury mortality among children and adolescents, firearm-related fatalities, unintentional drowning deaths, drug-related mortality, teenage pregnancy and abortion practices in Arizona. The [Monthly Vital Statistics Bulletin](#) has the most up to date information on births, deaths, marriages and divorces.



**Office of Epidemiology and Statistics
Bureau of Public Health Statistics
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